

| L Number | Hits | Search Text | DB | Time stamp |
|----------|------|---|--------------------|---------------------|
| - | 1 | "20030120662" and (level) | USPAT; US-PGPUB | 2004/07/01 12:09 |
| - | 1 | "20030120662" and (threshold with usage) | USPAT; US-PGPUB | 2004/06/25 15:58 |
| - | 1 | "20030120662" and (actual with usage) | USPAT; US-PGPUB | 2004/06/25 15:58 |
| - | 2772 | ((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (dynamic\$4 automatic\$4)) and (threshold with (value limit number)) and ((level categor\$3 class\$2 synonym\$3) with (value number limit)) | USPAT; US-PGPUB | 2004/07/01 12:21 |
| - | 2320 | ((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (dynamic\$4 automatic\$4)) and (threshold with (value limit number)) and ((level categor\$3 class\$2 synonym\$3) with (value number limit))) and (compare compari\$3) | USPAT; US-PGPUB | 2004/06/25 19:41 |
| - | 2301 | ((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (dynamic\$4 automatic\$4)) and (threshold with (value limit number)) and ((level categor\$3 class\$2 synonym\$3) with (value number limit))) and (compare compari\$3)) and (merg\$3 combin\$5 join\$3 add\$3) | USPAT; US-PGPUB | 2004/06/25 19:41 |
| - | 437 | ((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (dynamic\$4 automatic\$4)) and (threshold with (value limit number)) and ((level categor\$3 class\$2 synonym\$3) with (value number limit))) and (compare compari\$3)) and ((merg\$3 combin\$5 join\$3 add\$3) with node) | USPAT; US-PGPUB | 2004/06/25 19:42 |
| - | 382 | ((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (dynamic\$4 automatic\$4)) and (threshold with (value limit number)) and ((level categor\$3 class\$2 synonym\$3) with (value number limit))) and (compare compari\$3)) and ((merg\$3 combin\$5 join\$3 add\$3) with node)) and (promot\$3 increment\$3 (mov\$3 near2 (up higher)) advanc\$4 upgrad\$3) | USPAT; US-PGPUB | 2004/06/25 19:44 |
| - | 17 | ((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (dynamic\$4 automatic\$4)) and (threshold with (value limit number)) and ((level categor\$3 class\$2 synonym\$3) with (value number limit))) and (compare compari\$3)) and ((merg\$3 combin\$5 join\$3 add\$3) with node)) and ((promot\$3 increment\$3 (mov\$3 near2 (up higher)) advanc\$4 upgrad\$3) with node)) and ((demot\$5 (move near2 (down lower)) decrement\$5 downgrad\$3) with node) | USPAT; US-PGPUB | 2004/06/25 19:46 |
| - | 58 | ((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (dynamic\$4 automatic\$4)) and (threshold with (value limit number)) and ((level categor\$3 class\$2 synonym\$3) with (value number limit))) and (compare compari\$3)) and ((merg\$3 combin\$5 join\$3 add\$3) with node)) and ((promot\$3 increment\$3 (mov\$3 near2 (up higher)) advanc\$4 upgrad\$3) with node) | USPAT; US-PGPUB | 2004/06/25 19:54 |

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|---|--------|--|--------------------|---------------------|
| - | 57 | (((((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (dynamic\$4 automatic\$4)) and (threshold with (value limit number)) and ((level categor\$3 class\$2 synonym\$3) with (value number limit))) and (compare compari\$3)) and ((merg\$3 combin\$5 join\$3 add\$3) with node)) and ((promot\$3 increment\$3 (mov\$3 near2 (up higher)) advanc\$4 upgrad\$3) with node)) not (US-20020062388-A1.DID. and ((((((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (dynamic\$4 automatic\$4)) and (threshold with (value limit number)) and ((level categor\$3 class\$2 synonym\$3) with (value number limit))) and (compare compari\$3)) and ((merg\$3 combin\$5 join\$3 add\$3) with node)) and ((promot\$3 increment\$3 (mov\$3 near2 (up higher)) advanc\$4 upgrad\$3) with node)) and ((demot\$5 (move near2 (down lower)) decrement\$5 downgrad\$3) with node))) | USPAT; US-PGPUB | 2004/06/25 19:54 |
| - | 20 | ("5379366" "5625767" "5638494" "5768580" "5802508" "5835905" "6038560" "6038668" "6055515" "6112181" "6134532" "6195681" "6199034" "6219826" "6233575" "6282538" "6286002" "6289338" "6292894" "6311194").pn. | USPAT; US-PGPUB | 2004/06/25 20:49 |
| - | 161281 | ((data near2 min\$3) cluster\$3 categorization classification) | USPAT; US-PGPUB | 2004/06/25 20:51 |
| - | 13532 | ((maintain\$4 updat\$3) and (hierarch\$4 topolog\$4 catalog\$3 structure index taxonomy)).ab. | USPAT; US-PGPUB | 2004/06/25 20:53 |
| - | 876 | ((data near2 min\$3) cluster\$3 categorization classification)) and ((maintain\$4 updat\$3) and (hierarch\$4 topolog\$4 catalog\$3 structure index taxonomy)).ab.) | USPAT; US-PGPUB | 2004/06/25 20:54 |
| - | 233 | ((data near2 min\$3) cluster\$3 categorization classification)) and ((maintain\$4 updat\$3) and (hierarch\$4 topolog\$4 catalog\$3 structure index taxonomy)).ab.) and (compar\$4 with (value limit number)) | USPAT; US-PGPUB | 2004/06/25 20:55 |
| - | 22 | ((data near2 min\$3) cluster\$3 categorization classification)) and ((maintain\$4 updat\$3) and (hierarch\$4 topolog\$4 catalog\$3 structure index taxonomy)).ab.) and (compar\$4 with (value limit number))) and (merg\$3 with (data node)) | USPAT; US-PGPUB | 2004/06/28 13:15 |
| - | 1 | (US-20030120662-\$).did. | US-PGPUB | 2004/06/28 11:56 |
| - | 1 | ((US-20030120662-\$).did.) and (lateral) | USPAT; US-PGPUB | 2004/06/28 12:11 |
| - | 1 | ((US-20030120662-\$).did.) and (lateral with hierarchy) | USPAT; US-PGPUB | 2004/06/28 12:19 |
| - | 1 | ((US-20030120662-\$).did.) and (level with access) | USPAT; US-PGPUB | 2004/06/28 12:41 |
| - | 1 | ((US-20030120662-\$).did.) and (threshold with usage) | USPAT; US-PGPUB | 2004/06/28 12:49 |
| - | 1 | ((US-20030120662-\$).did.) and (actual with usage) | USPAT; US-PGPUB | 2004/06/28 12:49 |
| - | 6485 | usage and node and hierarch\$4 | USPAT; US-PGPUB | 2004/06/28 13:48 |
| - | 1905 | (usage and node and hierarch\$4) and (access\$3 with node) | USPAT; US-PGPUB | 2004/06/28 13:49 |
| - | 44 | ((usage and node and hierarch\$4) and (access\$3 with node)) and (threshold with (usage access))) and merg\$3 and (split\$3 break\$3 divid\$3 division) | USPAT; US-PGPUB | 2004/06/28 13:49 |

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|---|-------|--|--------------------|---------------------|
| - | 38 | ((usage and node and hierarch\$4) and (access\$3 with node)) and (threshold with (usage access))) and merg\$3 and (split\$3) | USPAT; US-PGPUB | 2004/06/28 13:49 |
| - | 137 | ((usage and node and hierarch\$4) and (access\$3 with node)) and (threshold with (usage access)) | USPAT; US-PGPUB | 2004/06/28 16:39 |
| - | 94 | ((usage and node and hierarch\$4) and (access\$3 with node)) and (threshold with (usage access))) and @AD<20011226 | USPAT; US-PGPUB | 2004/06/28 13:56 |
| - | 60 | ((usage and node and hierarch\$4) and (access\$3 with node)) and (threshold with (usage access))) and @AD<20011226) and (merg\$3 split\$4) | USPAT; US-PGPUB | 2004/06/28 14:04 |
| - | 36 | ((usage and node and hierarch\$4) and (access\$3 with node)) and (threshold with (usage access))) and @AD<20011226) and (merg\$3) | USPAT; US-PGPUB | 2004/06/28 16:33 |
| - | 35 | ((usage and node and hierarch\$4) and (access\$3 with node)) and (threshold with (usage access))) and @AD<20011226) and (merg\$3)) and ((determin\$5 calculat\$3) with (access usage level value)) | USPAT; US-PGPUB | 2004/06/28 16:37 |
| - | 5 | ((usage and node and hierarch\$4) and (access\$3 with node)) and (threshold with (usage access))) and @AD<20011226) and (merg\$3)) and ((determin\$5 calculat\$3) with (threshold)) | USPAT; US-PGPUB | 2004/06/28 16:40 |
| - | 186 | ((usage and node and (hierarch\$4 ontolog\$4 categoriz\$5 classif\$7)) and (access\$3 with node)) and (threshold with (usage access)) | USPAT; US-PGPUB | 2004/06/28 16:53 |
| - | 88 | ((usage and node and (hierarch\$4 ontolog\$4 categoriz\$5 classif\$7)) and (access\$3 with node)) and (threshold with (usage access))) and ((determin\$5 calculat\$3) with (threshold)) | USPAT; US-PGPUB | 2004/06/28 16:40 |
| - | 15 | ((usage and node and (hierarch\$4 ontolog\$4 categoriz\$5 classif\$7)) and (access\$3 with node)) and (threshold with (usage access))) and ((determin\$5 calculat\$3) with (threshold))) and (merg\$3) and (split\$4 separat\$3) | USPAT; US-PGPUB | 2004/06/28 16:43 |
| - | 6 | ((usage and node and (hierarch\$4 ontolog\$4 categoriz\$5 classif\$7)) and (access\$3 with node)) and (threshold with (usage access))) and (merg\$3 with node) | USPAT; US-PGPUB | 2004/06/28 16:43 |
| - | 20078 | ((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (dynamic\$4 automatic\$4) | USPAT; US-PGPUB | 2004/06/28 16:52 |
| - | 2322 | ((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (dynamic\$4 automatic\$4)) and ((access\$3 usage) with node) | USPAT; US-PGPUB | 2004/06/28 16:53 |
| - | 284 | ((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (dynamic\$4 automatic\$4)) and ((access\$3 usage) with node)) and ((determin\$5 calculat\$3) with threshold) | USPAT; US-PGPUB | 2004/06/28 17:26 |
| - | 11 | ((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (dynamic\$4 automatic\$4)) and ((access\$3 usage) with node)) and ((determin\$5 calculat\$3) with threshold)) and ((restructur\$3 with tree) or (merg\$3 with node) or ((promot\$2 demot\$5) with node)) | USPAT; US-PGPUB | 2004/06/28 17:20 |
| - | 5 | ("5930803" "6026399" "6182058" "6301579" "6460049" "2002/0091676").PN. | USPAT | 2004/06/28 17:06 |

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|---|-------|--|--------------------|---------------------|
| - | 2 | ((((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (dynamic\$4 automatic\$4)) and (merg\$3 with node) and (promot\$3 with node) and (demot\$5 with node) | USPAT; US-PGPUB | 2004/06/28 17:21 |
| - | 247 | ((((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (dynamic\$4 automatic\$4)) and (merg\$3 with node) | USPAT; US-PGPUB | 2004/06/28 17:26 |
| - | 37 | ((((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (dynamic\$4 automatic\$4)) and (merg\$3 with node)) and ((balanc\$3 maintain\$3 maintenance) with tree) | USPAT; US-PGPUB | 2004/06/28 17:27 |
| - | 2698 | ((((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (dynamic\$4 automatic\$4)) and ((determin\$5 calculat\$3) with threshold)) | USPAT; US-PGPUB | 2004/06/28 17:26 |
| - | 32 | ((((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (dynamic\$4 automatic\$4)) and ((determin\$5 calculat\$3) with threshold)) and (merg\$3 with node) | USPAT; US-PGPUB | 2004/06/28 17:26 |
| - | 3 | (((((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (dynamic\$4 automatic\$4)) and ((determin\$5 calculat\$3) with threshold)) and (merg\$3 with node)) and ((balanc\$3 maintain\$3 maintenance) with tree) | USPAT; US-PGPUB | 2004/06/28 17:27 |
| - | 1 | (US-6742003-\$).did. | USPAT | 2004/06/29 14:29 |
| - | 0 | ((US-6742003-\$).did.) and (merg\$3 with threshold) | USPAT; US-PGPUB | 2004/06/29 14:29 |
| - | 0 | ((US-6742003-\$).did.) and (merg\$3 same threshold) | USPAT; US-PGPUB | 2004/06/29 14:29 |
| - | 0 | ((US-6742003-\$).did.) and (combin\$3 with threshold) | USPAT; US-PGPUB | 2004/06/29 14:30 |
| - | 1 | ((US-6742003-\$).did.) and (combin\$3 same threshold) | USPAT; US-PGPUB | 2004/06/29 14:30 |
| - | 1 | "20030120662" | USPAT; US-PGPUB | 2004/06/29 14:58 |
| - | 24628 | (taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6) | USPAT; US-PGPUB | 2004/06/29 16:00 |
| - | 2 | ((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and ((compar\$4 with nodes) same (promot\$3 with node)) | USPAT; US-PGPUB | 2004/06/29 15:37 |
| - | 24 | ((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and ((compar\$4 with nodes) and (promot\$3 with node)) | USPAT; US-PGPUB | 2004/06/29 15:20 |
| - | 4 | ((((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and ((compar\$4 with nodes) and (promot\$3 with node))) and threshold | USPAT; US-PGPUB | 2004/06/29 15:22 |
| - | 20 | ((((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and ((compar\$4 with nodes) and (promot\$3 with node))) and (threshold limit tolerance) | USPAT; US-PGPUB | 2004/06/29 15:22 |
| - | 91 | ((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (promot\$3 with node) | USPAT; US-PGPUB | 2004/06/29 15:37 |
| - | 19 | ((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (promot\$3 near2 node) | USPAT; US-PGPUB | 2004/06/29 15:52 |
| - | 3 | 6353817.URPN. | USPAT | 2004/06/29 15:45 |
| - | 9 | ("4731725" "4931926" "5007429" "5195178" "5357427" "5615112" "5906578" "5911132" "6049794").PN. | USPAT | 2004/06/29 15:47 |
| - | 29 | ((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (promot\$3 near3 node) | USPAT; US-PGPUB | 2004/06/29 16:02 |

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|---|--------|---|--------------------|---------------------|
| - | 29 | ((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (promot\$3 near3 node)) not (("4731725" "4931926" "5007429" "5195178" "5357427" "5615112" "5906578" "5911132" "6049794").PN.) | USPAT; US-PGPUB | 2004/06/29 16:02 |
| - | 24971 | (taxonom\$7 classif\$7 categor\$7 ontolog\$4 thesaur\$3 (knowledge adj2 based)) and (hierarch\$6 (database near2 hierarch\$6)) | USPAT; US-PGPUB | 2004/06/29 16:06 |
| - | 29 | ((taxonom\$7 classif\$7 categor\$7 ontolog\$4 thesaur\$3 (knowledge adj2 based)) and (hierarch\$6 (database near2 hierarch\$6)) and (promot\$3 near3 node)) | USPAT; US-PGPUB | 2004/06/29 16:02 |
| - | 0 | ((taxonom\$7 classif\$7 categor\$7 ontolog\$4 thesaur\$3 (knowledge adj2 based)) and (hierarch\$6 (database near2 hierarch\$6))) and (promot\$3 near3 node)) not (((taxonom\$7 classif\$7 categor\$7 ontology) and (hierarch\$6)) and (promot\$3 near3 node)) | USPAT; US-PGPUB | 2004/06/29 16:02 |
| - | 60303 | hierarch\$6 | USPAT; US-PGPUB | 2004/06/29 16:14 |
| - | 19 | hierarch\$6 and (promot\$3 with node) and (demot\$3 with node) | USPAT; US-PGPUB | 2004/06/29 16:14 |
| - | 189011 | hierarch\$6 tree topolog\$4 | USPAT; US-PGPUB | 2004/06/29 16:14 |
| - | 26 | (hierarch\$6 tree topolog\$4) and (promot\$3 with node) and (demot\$3 with node) | USPAT; US-PGPUB | 2004/06/29 16:43 |
| - | 7 | ((hierarch\$6 tree topolog\$4) and (promot\$3 with node) and (demot\$3 with node)) not (hierarch\$6 and (promot\$3 with node) and (demot\$3 with node)) | USPAT; US-PGPUB | 2004/06/29 16:14 |
| - | 2027 | (hierarch\$6 tree topolog\$4) and ((promot\$3 advanc\$5 (move adj4(up higher level))) with node) | USPAT; US-PGPUB | 2004/06/29 16:21 |
| - | 713 | ((hierarch\$6 tree topolog\$4) and ((promot\$3 advanc\$5 (move adj4(up higher level))) with node)) and (taxono\$9 ontolo\$7 (knowledge adj2 based) categoriz\$5 classif\$7) | USPAT; US-PGPUB | 2004/06/29 16:22 |
| - | 431 | ((hierarch\$6 tree topolog\$4) and ((promot\$3 advanc\$5 (move adj4(up higher level))) with node)) and (taxono\$9 ontolo\$7 (knowledge adj2 based) categoriz\$5 classif\$7)) and tree | USPAT; US-PGPUB | 2004/06/29 16:23 |
| - | 32 | ((((hierarch\$6 tree topolog\$4) and ((promot\$3 advanc\$5 (move adj4(up higher level))) with node)) and (taxono\$9 ontolo\$7 (knowledge adj2 based) categoriz\$5 classif\$7)) and tree) and (compar\$5 with (threshold limit)) | USPAT; US-PGPUB | 2004/06/29 16:24 |
| - | 138498 | hierarch\$7 tree | USPAT; US-PGPUB | 2004/06/29 16:44 |
| - | 112652 | (hierarch\$7 tree) and (sort\$3 rebalanc\$3 balanc\$3 order\$3) | USPAT; US-PGPUB | 2004/06/29 16:44 |
| - | 17321 | (hierarch\$7 tree) with (sort\$3 rebalanc\$3 balanc\$3 order\$3) | USPAT; US-PGPUB | 2004/06/29 16:45 |
| - | 10 | ((hierarch\$7 tree) with (sort\$3 rebalanc\$3 balanc\$3 order\$3)) and ((promot\$3 and demot\$3) with node) | USPAT; US-PGPUB | 2004/06/29 16:45 |
| - | 1 | "20030120662" | USPAT; US-PGPUB | 2004/06/29 18:50 |
| - | 1 | "20030120662" and (usage with content) | USPAT; US-PGPUB | 2004/06/29 18:50 |
| - | 1 | "20030120662" and (usage with information) | USPAT; US-PGPUB | 2004/06/30 10:32 |
| - | 1 | "20030120662" and (sum with request) | USPAT; US-PGPUB | 2004/06/30 13:06 |
| - | 1 | "20030120662" and (sum) | USPAT; US-PGPUB | 2004/06/30 11:39 |

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|---|----|---|--------------------|---------------------|
| - | 1 | "20030120662" and (proximity) | USPAT; US-PGPUB | 2004/06/30 11:39 |
| - | 1 | (US-6742003-\$).did. | USPAT | 2004/06/30 11:49 |
| - | 0 | ((US-6742003-\$).did.) and (pric\$3) | USPAT; US-PGPUB | 2004/06/30 11:49 |
| - | 0 | ((US-6742003-\$).did.) and (price) | USPAT; US-PGPUB | 2004/06/30 11:49 |
| - | 1 | ((US-6742003-\$).did.) and (price cost) | USPAT; US-PGPUB | 2004/06/30 11:49 |
| - | 31 | (US-6678694-\$ or US-6556983-\$ or US-6421668-\$ or US-6286002-\$ or US-6233575-\$ or US-6134532-\$ or US-6195681-\$ or US-6112181-\$ or US-6055515-\$ or US-5768580-\$ or US-5802508-\$ or US-6470344-\$ or US-6026406-\$ or US-5852822-\$ or US-5379422-\$ or US-5261088-\$ or US-6631496-\$ or US-6549944-\$ or US-6341310-\$ or US-6640284-\$ or US-6742003-\$ or US-6216134-\$ or US-6026399-\$ or US-6353817-\$ or US-5701467-\$ or US-6622139-\$).did. or (US-20030120662-\$ or US-20030176931-\$ or US-20020059202-\$ or US-20020057841-\$ or US-20020133491-\$).did. | USPAT; US-PGPUB | 2004/06/30 12:32 |
| - | 19 | ((US-6678694-\$ or US-6556983-\$ or US-6421668-\$ or US-6286002-\$ or US-6233575-\$ or US-6134532-\$ or US-6195681-\$ or US-6112181-\$ or US-6055515-\$ or US-5768580-\$ or US-5802508-\$ or US-6470344-\$ or US-6026406-\$ or US-5852822-\$ or US-5379422-\$ or US-5261088-\$ or US-6631496-\$ or US-6549944-\$ or US-6341310-\$ or US-6640284-\$ or US-6742003-\$ or US-6216134-\$ or US-6026399-\$ or US-6353817-\$ or US-5701467-\$ or US-6622139-\$).did. or (US-20030120662-\$ or US-20030176931-\$ or US-20020059202-\$ or US-20020057841-\$ or US-20020133491-\$).did.) and (pric\$3 cost) | USPAT; US-PGPUB | 2004/06/30 11:51 |
| - | 11 | ((US-6678694-\$ or US-6556983-\$ or US-6421668-\$ or US-6286002-\$ or US-6233575-\$ or US-6134532-\$ or US-6195681-\$ or US-6112181-\$ or US-6055515-\$ or US-5768580-\$ or US-5802508-\$ or US-6470344-\$ or US-6026406-\$ or US-5852822-\$ or US-5379422-\$ or US-5261088-\$ or US-6631496-\$ or US-6549944-\$ or US-6341310-\$ or US-6640284-\$ or US-6742003-\$ or US-6216134-\$ or US-6026399-\$ or US-6353817-\$ or US-5701467-\$ or US-6622139-\$).did. or (US-20030120662-\$ or US-20030176931-\$ or US-20020059202-\$ or US-20020057841-\$ or US-20020133491-\$).did.) and (pric\$3) | USPAT; US-PGPUB | 2004/06/30 12:16 |

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|---|---|--|--------------------|---------------------|
| - | 1 | ((US-6678694-\$ or US-6556983-\$ or US-6421668-\$ or US-6286002-\$ or US-6233575-\$ or US-6134532-\$ or US-6195681-\$ or US-6112181-\$ or US-6055515-\$ or US-5768580-\$ or US-5802508-\$ or US-6470344-\$ or US-6026406-\$ or US-5852822-\$ or US-5379422-\$ or US-5261088-\$ or US-6631496-\$ or US-6549944-\$ or US-6341310-\$ or US-6640284-\$ or US-6742003-\$ or US-6216134-\$ or US-6026399-\$ or US-6353817-\$ or US-5701467-\$ or US-6622139-\$).did. or (US-20030120662-\$ or US-20030176931-\$ or US-20020059202-\$ or US-20020057841-\$ or US-20020133491-\$).did.) and ("enables highly efficient provision") | USPAT; US-PGPUB | 2004/06/30 12:18 |
| - | 1 | (US-6055515-\$).did. | USPAT | 2004/06/30 12:17 |
| - | 0 | ((US-6055515-\$).did.) and ("enables highly efficient") | USPAT; US-PGPUB | 2004/06/30 12:17 |
| - | 0 | ((US-6055515-\$).did.) and (enables adj1 highly adj1 efficient) | USPAT; US-PGPUB | 2004/06/30 12:17 |
| - | 0 | ((US-6055515-\$).did.) and (highly adj1 efficient) | USPAT; US-PGPUB | 2004/06/30 12:18 |
| - | 1 | ((US-6678694-\$ or US-6556983-\$ or US-6421668-\$ or US-6286002-\$ or US-6233575-\$ or US-6134532-\$ or US-6195681-\$ or US-6112181-\$ or US-6055515-\$ or US-5768580-\$ or US-5802508-\$ or US-6470344-\$ or US-6026406-\$ or US-5852822-\$ or US-5379422-\$ or US-5261088-\$ or US-6631496-\$ or US-6549944-\$ or US-6341310-\$ or US-6640284-\$ or US-6742003-\$ or US-6216134-\$ or US-6026399-\$ or US-6353817-\$ or US-5701467-\$ or US-6622139-\$).did. or (US-20030120662-\$ or US-20030176931-\$ or US-20020059202-\$ or US-20020057841-\$ or US-20020133491-\$).did.) and (silk with tie) | USPAT; US-PGPUB | 2004/06/30 12:19 |
| - | 9 | ((US-6678694-\$ or US-6556983-\$ or US-6421668-\$ or US-6286002-\$ or US-6233575-\$ or US-6134532-\$ or US-6195681-\$ or US-6112181-\$ or US-6055515-\$ or US-5768580-\$ or US-5802508-\$ or US-6470344-\$ or US-6026406-\$ or US-5852822-\$ or US-5379422-\$ or US-5261088-\$ or US-6631496-\$ or US-6549944-\$ or US-6341310-\$ or US-6640284-\$ or US-6742003-\$ or US-6216134-\$ or US-6026399-\$ or US-6353817-\$ or US-5701467-\$ or US-6622139-\$).did. or (US-20030120662-\$ or US-20030176931-\$ or US-20020059202-\$ or US-20020057841-\$ or US-20020133491-\$).did.) and ((web URL internet (web?page) WWW) with directory) | USPAT; US-PGPUB | 2004/06/30 12:43 |
| - | 1 | (US-6195681-\$).did. | USPAT | 2004/06/30 12:43 |
| - | 0 | ((US-6195681-\$).did.) and (dynamic same pric\$3) | USPAT; US-PGPUB | 2004/06/30 12:44 |
| - | 0 | ((US-6195681-\$).did.) and (pric\$3) | USPAT; US-PGPUB | 2004/06/30 12:44 |
| - | 1 | ((US-6195681-\$).did.) and (pric\$3 advertis\$5) | USPAT; US-PGPUB | 2004/06/30 12:51 |

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|---|--------|---|--------------------|---------------------|
| - | 16 | ((US-6678694-\$ or US-6556983-\$ or US-6421668-\$ or US-6286002-\$ or US-6233575-\$ or US-6134532-\$ or US-6195681-\$ or US-6112181-\$ or US-6055515-\$ or US-5768580-\$ or US-5802508-\$ or US-6470344-\$ or US-6026406-\$ or US-5852822-\$ or US-5379422-\$ or US-5261088-\$ or US-6631496-\$ or US-6549944-\$ or US-6341310-\$ or US-6640284-\$ or US-6742003-\$ or US-6216134-\$ or US-6026399-\$ or US-6353817-\$ or US-5701467-\$ or US-6622139-\$).did. or (US-20030120662-\$ or US-20030176931-\$ or US-20020059202-\$ or US-20020057841-\$ or US-20020133491-\$).did.) and (pric\$3 advertis\$5) | USPAT; US-PGPUB | 2004/06/30 12:54 |
| - | 1 | "20030120662" and (allocation map) | USPAT; US-PGPUB | 2004/06/30 13:18 |
| - | 1 | "20030120662" and (logic media) | USPAT; US-PGPUB | 2004/06/30 13:18 |
| - | 1 | "20030120662" and (encod\$5) | USPAT; US-PGPUB | 2004/06/30 16:24 |
| - | 317972 | taxonom\$7 classif\$7 categor\$7 ontology | USPAT; US-PGPUB | 2004/06/30 16:28 |
| - | 141 | (taxonom\$7 classif\$7 categor\$7 ontology) and (access same (sum with (IP address))) | USPAT; US-PGPUB | 2004/06/30 16:26 |
| - | 19 | (taxonom\$7 classif\$7 categor\$7 ontology) and (access same (sum with (IP near2 address))) | USPAT; US-PGPUB | 2004/06/30 16:28 |
| - | 7664 | taxonom\$7 | USPAT; US-PGPUB | 2004/06/30 16:28 |
| - | 16 | taxonom\$7 and (access same ((sum total number) with (IP near2 address))) | USPAT; US-PGPUB | 2004/07/01 15:07 |
| - | 1 | "20030120662" and (IP with address) | USPAT; US-PGPUB | 2004/06/30 16:32 |
| - | 2 | taxonom\$7 and ((log track) with ((sum total number) with (IP near2 address))) | USPAT; US-PGPUB | 2004/06/30 16:34 |
| - | 1 | "20030120662" and (device with ID) | USPAT; US-PGPUB | 2004/07/01 13:44 |
| - | 1 | "20030120662" and (device same ID) | USPAT; US-PGPUB | 2004/06/30 16:39 |
| - | 1 | "20030120662" and (device same sum) | USPAT; US-PGPUB | 2004/06/30 16:39 |
| - | 1 | "20030120662" and (device) | USPAT; US-PGPUB | 2004/06/30 17:16 |
| - | 1 | "20030120662" and (different with IP) | USPAT; US-PGPUB | 2004/06/30 17:16 |
| - | 5 | (US-6631496-\$ or US-5701467-\$ or US-6742003-\$ or US-6055515-\$ or US-6470344-\$).did. | USPAT | 2004/06/30 17:47 |
| - | 0 | ((US-6631496-\$ or US-5701467-\$ or US-6742003-\$ or US-6055515-\$ or US-6470344-\$).did.) and (director\$3 with (web URL Internet online)) | USPAT; US-PGPUB | 2004/06/30 17:33 |
| - | 2 | ((US-6631496-\$ or US-5701467-\$ or US-6742003-\$ or US-6055515-\$ or US-6470344-\$).did.) and (director\$3) | USPAT; US-PGPUB | 2004/06/30 17:34 |
| - | 3 | ((US-6631496-\$ or US-5701467-\$ or US-6742003-\$ or US-6055515-\$ or US-6470344-\$).did.) and (WWW URL Internet web) | USPAT; US-PGPUB | 2004/06/30 17:35 |
| - | 1 | (US-6112181-\$).did. | USPAT | 2004/06/30 17:45 |
| - | 1 | ((US-6112181-\$).did.) and (directory same (Internet web URL WWW)) | USPAT; US-PGPUB | 2004/06/30 17:45 |
| - | 1 | US-6055515-\$).did. | USPAT; US-PGPUB | 2004/06/30 17:48 |
| - | 0 | US-6055515-\$).did. and (directory same (Internet web URL WWW)) | USPAT; US-PGPUB | 2004/06/30 17:48 |

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|---|-------|--|--------------------|---------------------|
| - | 1 | US-6055515-\$.did. and (directory) | USPAT; US-PGPUB | 2004/06/30 17:48 |
| - | 36 | (US-6678694-\$ or US-6556983-\$ or US-6421668-\$ or US-6286002-\$ or US-6233575-\$ or US-6134532-\$ or US-6195681-\$ or US-6112181-\$ or US-6055515-\$ or US-5768580-\$ or US-5802508-\$ or US-6470344-\$ or US-6026406-\$ or US-5852822-\$ or US-5379422-\$ or US-5261088-\$ or US-6631496-\$ or US-6549944-\$ or US-6341310-\$ or US-6640284-\$ or US-6742003-\$ or US-6216134-\$ or US-6026399-\$ or US-6353817-\$ or US-5701467-\$ or US-6622139-\$).did. or (US-5950173-\$).did. or (US-20030120662-\$ or US-20030176931-\$ or US-20020059202-\$ or US-20020057841-\$ or US-20020133491-\$ or US-20020155827-\$ or US-20020004753-\$ or US-20020083067-\$ or US-20020169687-\$).did. | USPAT; US-PGPUB | 2004/06/30 17:53 |
| - | 12 | ((US-6678694-\$ or US-6556983-\$ or US-6421668-\$ or US-6286002-\$ or US-6233575-\$ or US-6134532-\$ or US-6195681-\$ or US-6112181-\$ or US-6055515-\$ or US-5768580-\$ or US-5802508-\$ or US-6470344-\$ or US-6026406-\$ or US-5852822-\$ or US-5379422-\$ or US-5261088-\$ or US-6631496-\$ or US-6549944-\$ or US-6341310-\$ or US-6640284-\$ or US-6742003-\$ or US-6216134-\$ or US-6026399-\$ or US-6353817-\$ or US-5701467-\$ or US-6622139-\$).did. or (US-5950173-\$).did. or (US-20030120662-\$ or US-20030176931-\$ or US-20020059202-\$ or US-20020057841-\$ or US-20020133491-\$ or US-20020155827-\$ or US-20020004753-\$ or US-20020083067-\$ or US-20020169687-\$).did.) and (directory same (Internet web URL www)) | USPAT; US-PGPUB | 2004/06/30 17:54 |
| - | 1 | (US-5950173-\$).did. | USPAT | 2004/06/30 18:08 |
| - | 1 | ((US-5950173-\$).did.) and (directory same (categoriz\$5 taxonom\$3 classif\$7)) | USPAT; US-PGPUB | 2004/06/30 18:08 |
| - | 1 | "20030120662" | USPAT; US-PGPUB | 2004/07/01 12:09 |
| - | 1 | "20030120662" and (dynamic same pricing) | USPAT; US-PGPUB | 2004/07/01 12:21 |
| - | 67325 | taxono\$7 hierarch\$6 ontolog\$6 | USPAT; US-PGPUB | 2004/07/01 13:55 |
| - | 688 | ((taxono\$7 hierarch\$6 ontolog\$6) and ((dynamic\$5 automatic\$5) with pric\$3)) | USPAT; US-PGPUB | 2004/07/01 12:23 |
| - | 414 | ((taxono\$7 hierarch\$6 ontolog\$6) and ((dynamic\$5 automatic\$5) with pric\$3)) and (advertis\$5 directory (Yellow adj2 pages) (phone adj2 book)) | USPAT; US-PGPUB | 2004/07/01 12:27 |
| - | 195 | ((taxono\$7 hierarch\$6 ontolog\$6) and ((dynamic\$5 automatic\$5) with pric\$3)) and (advertis\$5 directory (Yellow adj2 pages) (phone adj2 book))) and (access with level) | USPAT; US-PGPUB | 2004/07/01 12:25 |
| - | 123 | ((taxono\$7 hierarch\$6 ontolog\$6) and ((dynamic\$5 automatic\$5) with pric\$3)) and (advertis\$5 directory (Yellow adj2 pages) (phone adj2 book))) and (access near2 level) | USPAT; US-PGPUB | 2004/07/01 12:27 |
| - | 322 | ((taxono\$7 hierarch\$6 ontolog\$6) and ((dynamic\$5 automatic\$5) with pric\$3)) and (advertis\$5 (Yellow adj2 pages) (phone adj2 book)) | USPAT; US-PGPUB | 2004/07/01 12:27 |

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|---|--------|---|--------------------|---------------------|
| - | 109 | ((taxono\$7 hierarch\$6 ontolog\$6) and ((dynamic\$5 automatic\$5) with pric\$3)) and (advertis\$5 (Yellow adj2 pages) (phone adj2 book))) and (access near2 level) | USPAT; US-PGPUB | 2004/07/01 12:53 |
| - | 25 | (taxono\$7 hierarch\$6 ontolog\$6) and ((access near2 level) same (pric\$3)) | USPAT; US-PGPUB | 2004/07/01 13:01 |
| - | 5651 | (taxono\$7 hierarch\$6 ontolog\$6) and (advertis\$6) | USPAT; US-PGPUB | 2004/07/01 13:01 |
| - | 225 | ((taxono\$7 hierarch\$6 ontolog\$6) and (advertis\$6)) and ((cost charge price) same ((access near2 level) hits)) | USPAT; US-PGPUB | 2004/07/01 13:03 |
| - | 72 | ((taxono\$7 hierarch\$6 ontolog\$6) and (advertis\$6)) and ((cost charge price) with ((access near2 level) hits)) | USPAT; US-PGPUB | 2004/07/01 14:52 |
| - | 22 | ("4752675" "5446862" "5649142" "5793972" "5812776" "5870550" "5884038" "5898833" "5929801" "5933811" "5933827" "5935207" "5943670" "5948061" "5959623" "5960409" "5961603" "5995965" "5999912" "5999929" "6009410" "6016107").PN. | USPAT | 2004/07/01 13:20 |
| - | 3 | ((("4752675" "5446862" "5649142" "5793972" "5812776" "5870550" "5884038" "5898833" "5929801" "5933811" "5933827" "5935207" "5943670" "5948061" "5959623" "5960409" "5961603" "5995965" "5999912" "5999929" "6009410" "6016107").PN.) and (CGI) | USPAT; US-PGPUB | 2004/07/01 13:20 |
| - | 1 | ((("4752675" "5446862" "5649142" "5793972" "5812776" "5870550" "5884038" "5898833" "5929801" "5933811" "5933827" "5935207" "5943670" "5948061" "5959623" "5960409" "5961603" "5995965" "5999912" "5999929" "6009410" "6016107").PN.) and (CGI)) and (advertis\$6) and (hit) | USPAT; US-PGPUB | 2004/07/01 13:21 |
| - | 1 | "20030120662" and (call same map) | USPAT; US-PGPUB | 2004/07/01 13:44 |
| - | 1 | "20030120662" and (resource same map) | USPAT; US-PGPUB | 2004/07/01 13:45 |
| - | 1 | "20030120662" and (resource same allocat\$3) | USPAT; US-PGPUB | 2004/07/01 13:45 |
| - | 1 | "20030120662" and (resource) | USPAT; US-PGPUB | 2004/07/01 13:45 |
| - | 1 | "20030120662" and (allocation) | USPAT; US-PGPUB | 2004/07/01 13:47 |
| - | 12 | (taxono\$7 hierarch\$6 ontolog\$6) and (allocat\$3 same ((center) with personnel)) | USPAT; US-PGPUB | 2004/07/01 13:51 |
| - | 7 | (taxono\$7 hierarch\$6 ontolog\$6) and (allocat\$3 same ((call near4 center) with resource)) | USPAT; US-PGPUB | 2004/07/01 13:56 |
| - | 1 | ((taxono\$7 hierarch\$6 ontolog\$6) and (allocat\$3 same ((call near4 center) with resource))) and (taxonom\$3) | USPAT; US-PGPUB | 2004/07/01 13:54 |
| - | 278542 | taxono\$7 hierarch\$6 ontolog\$6 classif\$7 categoriz\$7 | USPAT; US-PGPUB | 2004/07/01 13:55 |
| - | 235948 | taxono\$7 ontolog\$6 classif\$7 categoriz\$7 | USPAT; US-PGPUB | 2004/07/01 13:56 |
| - | 11 | (taxono\$7 ontolog\$6 classif\$7 categoriz\$7) and (allocat\$3 same ((call near4 center) with resource)) | USPAT; US-PGPUB | 2004/07/01 13:56 |
| - | 1 | (US-5948040-\$).did. | USPAT | 2004/07/01 14:08 |
| - | 0 | ((US-5948040-\$).did.) and (dynamic with pric\$3) | USPAT; US-PGPUB | 2004/07/01 14:08 |

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|---|-------|---|--------------------|---------------------|
| - | 1 | ((US-5948040-\$).did.) and (dynamic same pric\$3) | USPAT; US-PGPUB | 2004/07/01 14:08 |
| - | 284 | (taxono\$7 ontolog\$6 classif\$7 categoriz\$7) and (advertis\$6 same (web near4 access)) | USPAT; US-PGPUB | 2004/07/01 14:34 |
| - | 65 | ((taxono\$7 ontolog\$6 classif\$7 categoriz\$7) and (advertis\$6 same (web near4 access))) and ((dynamic autom\$8) with (pric\$3 map\$4)) | USPAT; US-PGPUB | 2004/07/01 14:46 |
| - | 50410 | "72" and ((dynamic automat\$6) same (cost\$3 charg\$3 pric\$3)) | USPAT; US-PGPUB | 2004/07/01 14:54 |
| - | 56 | ((taxono\$7 hierarch\$6 ontolog\$6) and (advertis\$6)) and ((cost charge price) with ((access near2 level) hits)) and ((dynamic automat\$6) same (cost\$3 charg\$3 pric\$3)) | USPAT; US-PGPUB | 2004/07/01 14:54 |
| - | 79 | (taxono\$7 hierarch\$6 ontolog\$6) and (allocat\$3 same ((center) with resource)) | USPAT; US-PGPUB | 2004/07/01 15:03 |
| - | 17 | ((("4752675" "5446862" "5649142" "5793972" "5812776" "5870550" "5884038" "5898833" "5929801" "5933811" "5933827" "5935207" "5943670" "5948061" "5959623" "5960409" "5961603" "5995965" "5999912" "5999929" "6009410" "6016107").PN.) and (dynamic\$4 automat\$6) | USPAT; US-PGPUB | 2004/07/01 15:07 |
| - | 22 | ((("4752675" "5446862" "5649142" "5793972" "5812776" "5870550" "5884038" "5898833" "5929801" "5933811" "5933827" "5935207" "5943670" "5948061" "5959623" "5960409" "5961603" "5995965" "5999912" "5999929" "6009410" "6016107").PN.) and (dynamic\$4 automat\$6) | USPAT | 2004/07/01 15:07 |
| - | 17 | ((("4752675" "5446862" "5649142" "5793972" "5812776" "5870550" "5884038" "5898833" "5929801" "5933811" "5933827" "5935207" "5943670" "5948061" "5959623" "5960409" "5961603" "5995965" "5999912" "5999929" "6009410" "6016107").PN.) and (dynamic\$4 automat\$6) | USPAT; US-PGPUB | 2004/07/01 15:08 |
| - | 15 | ((("4752675" "5446862" "5649142" "5793972" "5812776" "5870550" "5884038" "5898833" "5929801" "5933811" "5933827" "5935207" "5943670" "5948061" "5959623" "5960409" "5961603" "5995965" "5999912" "5999929" "6009410" "6016107").PN.) and ((dynamic\$4 automat\$6) and (hit access CGI)) | USPAT; US-PGPUB | 2004/07/01 15:09 |
| - | 4 | ((("4752675" "5446862" "5649142" "5793972" "5812776" "5870550" "5884038" "5898833" "5929801" "5933811" "5933827" "5935207" "5943670" "5948061" "5959623" "5960409" "5961603" "5995965" "5999912" "5999929" "6009410" "6016107").PN.) and ((dynamic\$4 automat\$6) and (hit CGI) and (advertis\$6)) | USPAT; US-PGPUB | 2004/07/01 15:09 |